

Y-12 BULLETI

Tuesday, August 17, 1948

City Roadway **Improvements** Now Under Way

Invitations to contractors to bid on additional roadway and sidewalk improvements in the Oak Ridge Area were issued on August 9, the Atomic Energy Commission announced. Bids will be received until 2 p.m., September 8 and then publicly opened.

Improvements will include con-

struction work on city roads and lanes and concrete entrance side-walks and steps to 600 semi-permanent dwelling units in the north central entrance sidewalks and steps to 600 semi-permanent dwellsteps to 600 semi-permanent dwelling units in the north central section of the city. Hot asphaltic surfacing of portions of the Bethel Valley and Scarboro Roads will also be included in the contract, as well as paving of the sites at which guard structures will be situated at the new controlled area entrances leading from the town of Oak Ridge to the gaseous diffusion plant, the electromagnetic plant and the Oak Ridge National Laboratory. The Rentenbach Engineering Company of Knoxville was ineering Company of Knoxville was recently announced as low bidder for the construction of guard struc-

tures at the new entrances.

The new construction is the second stop in a roadway and sidewalk improvement program which is underway on the Area. The con-tracting firm of Harrison Construction Company is at present working on city roads and lanes bounded by Pennsylvania Avenue on the south, West Outer Drive on the north and New York Avenue on the east. Entrance sidewalks and steps are in the process of construction. Hot asphalt surfacing of Gallaher Road and the Oak Ridge Turnpike has been completed, and the remaining construction is expected to be finished in No-

The new work to be let will consist of approximately two and one-half miles of city roads and lanes and will include earthwork, installation of drainage structures, concrete combined curb and gutter, hot asphaltic base for pavement widening and leveling, and hot as-

phaltic concrete surfacing.
The following 22 roads and lanes The following 22 roads and lanes constitute the new construction work on city roadways; Hoyt Lane, East Holston Lane, Howard Lane, Wasbash Lane, Waddell Circle, West Price Lane, Pomona Road, Plymouth Circle, Pleasant Road, Pocono Lane, Hunter Circle, Hunter Place, West Pawley Road, West Passmore Road, Oxford Road, Asage Road, Norman Lane, East Newkirk Road, and Nesper Road. Entrance sidewalks and steps to semi-permanent dwelling units will

semi-permanent dwelling units will be constructed on California and Delaware Avenues in addition to the roadways listed. Hot asphaltic sidewalks will be constructed along one side of roads and lanes.

(Continued on Page 3)

Oak Ridge Post Nominates Second District Leader

Miller B. McDonald, past com-mander of the Oak Ridge American Legion Post, was nominated by the Oak Ridge chapter at their meeting last week for the post of

5-8017

OAK RIDGE, TENNESSEE

A12S Group Handles

Y-12 Operation Of Stores Receiving And Shipping

Dept. A12S, Receiving, Shipping and Stores, has the vast responsibility of handling the huge stockpiles of material and equipment used in Y-12 operations, as well as receiving all inbound shipments and properly dispatching outbound consignments. It maintains and operates four principal warehouses and numerous substores throughout the plant to facilitate its distribution

of material and equipment when and where it is needed.

At the east end of the plant area is Bldg. 9720-6, where all inbound and outbound articles are handled and a vast amount of stores and equipment is stocked. In the matter of inbound shipments about 40 are received daily by truck and rail, ranging from carloads of coal to parcel post packages. Outbound shipments now mostly are com-posed of excess Y-12 equipment that are being dispatched to other Atomic Energy Commission units.

This massive warehouse closely resembles a large airport hanger and it is stocked neatly from end to end with tiny screws in stock bins to giant transformers. There are 55,000 square feet of floor space on the first floor topped with a halcony having 7,5000 square feet a balcony having 7,5000 square feet of space. The length of this ware-

Ruth Jamison gives a daily re-port of the polio situation in Oak Ridge on her "Food for Thought" of space. The length of this ware-house is 420 feet.

In the matter of items stocked, the Electrical Stores Section in Bldg. 9720-6 tops the rest, with approximately 20,000 different kinds of articles on hand. There program over WATO at 10:30 a.m. In addition to this daily informant program, the public will be notified immediately through news channels if an epidemic are giant transformers, powerful motors, button switches and miles of wire stored in the building ready

to be placed in operation.
General Stores is located in Bldg.
9720-2, also in the east end of the 9720-2, also in the east end of the area. Materials stored here include hardware, metal stocks, janitorial supplies, valves and many other items. Cement, lumber, general utilities equipment, pipe and similar material are stored in other locations around the area under the jurisdiction of the General Stores section.

All tools used in the V-12 plant ate with possible carriers.

3. Get plenty of sleep and adequite diet.

Oak Ridge has an average of four polio cases a year. The highest number of cases reported in

All tools used in the Y-12 plant are charged out to the Tool Department along with all clothing, safety shoes being the only exception. In turn the Tool Department issues tools to individuals and when the tools become with the tools because the t the tools become unservicable they are exchanged. The Tool Depart-(Continued on Page 3)

HERE IS ONE OF THE LARGEST PIECES OF EQUIP-ment listed by the Y-12 Property Department and the largest handled by Y-12 riggers of Dept. A17N. It is a 72-ton electric transformer, shown here as it was placed on a trailer when moved from Miday to Y-12.

Seven Groups Report | Y-12 Employee Wins Perfect Attendance

Seven departments in the Minor League reported perfect attendance for the week ending August 8. However, the plant average for this same period was 2.6 per cent or .2 per cent higher than the preceding week despite the showing of the Minor League departments.

Dept. H12L, Isotope Development, took the lead in the Major League with an absentee report of 0.7 per cent. They were in second place for the preceding week.

Club Print Contest

Foster F. Calloway, Dept. H12E, won first and second prize in the Carbide Camera Club's black and white print competition contest on sports. Third prize went to Don Ross, Dept. H12E, and Bruce Stockbridge, Dept. H12E, received honorable mention.

The August 11 meeting was acclaimed as one of the best in re-cent months and the increased attendance was incouraging, according to Calloway, club president.

Second place in the Major League went to Dept. A12G, Guards, reporting 0.9 per cent and third place was taken by Dept. B12H, Refining with an attendance report of 1.1 per cent.

Seven Departments Perfect
The seven departments in the Minor League reporting perfect attendance are Dept. A12J, Industrial Services; Dept. M13P, Production (Continued on Page 3)

Suggestions By Seven Y-12 Employees Are Recognized

any one year for Oak Ridge was

Three Polio

Cases Listed

In Oak Ridge

Three cases of infantile paraly-

sis have been reported in Oak

Ridge, resulting in the first polio

death for Oak Ridge, according to

Dr. G. F. Moench, director of the Oak Ridge Health Department. Dr. Moench added that it has not been necessary to close any swimming pools or public gather-

ings in the area. However, if the disease reaches an epidemic stage then all swimming pools, theaters and public gatherings will be for-

Dr. Moench advises that these

Stay out of crowds. Don't go where polio cases have been reported or associ-

precautions be observed:

Suggestions of twelve Y-12 employees have been recognized as meritorious by the Company and

meritorious by the Company and adopted as means of increasing plant efficiency and economy.

The employees and suggestion numbers include S. N. Elmore, Dept. A12G, 62747; A. K. Johnson, Jr., Dept. A14N, 62313; S. B. Ward, Dept. A14N, 26695; M. Huddleston, Dept. B12C, 62515; G. L. Miller, Dept. B12H, 62772; L. C. Hale, Dept. B12H, 61678; Calvin C. Hembree, Dept. B12H, 64043; Frances U. Gilliam, Dept. H12D, 64165; Dorothy Mellen, Dept. H12D, 62131; O. M. Garrett, Dept. H12L, 64127.

Carbide And Carbon Unit Produces Materials For The New Rolled Plastic Fabric 'Krene'

cestors, the cave dwellers, discovered that they could obtain warmth and protection by means of gar-ments of animal skins. Since then one index of man's progress has been the continual development of different kinds of textiles and fabrics to meet human needs, accord-

rics" probably began when our an- are made by National Carbon Co., terials are processed to form two are unauthorized to receive such Inc., a Unit of Union Carbide and Carbon Corp., at its Bennington, Vt., and Greenville, N.C., plants. Materials from which they are made are produced by Carbide and Carbon Chemicals Corp. Common Raw Materials Used

To the chemist, the material of meeting last week for the post of second district commander, and his nomination will be placed before the state convention to be held in Nashville on August 22-24.

C. E. Boone, post commander, extends an invitation to all Legionaires to visit the newly decorated club room in Legion Hall at Grove Center.

To the chemist, the material of which these products are made is a copolymer of vinyl acctate suitably plasticized and calendary and calendary and calendary and vinyl acctate suitably plasticized and calendary are natural gas that heats our newses, salt that the science of fabrics because "Krene" plastic is rolled, not wov-

gases which are then combined and information must not be within changed to a white powder similar changed to a white powder similar in appearance to flour. After a solvent and coloring matter are added to the powder, it is passed through giant heated rollers to emerge as a thin, strong film fab-

"Krene" plastic fabric is a flex-ible elastic film thin enough to see through but so tough that it cannot be torn without a deliberate attempt at destruction. It hangs or drapes in soft, wrinkle-free folds. It is completely waterproof,

(Continued on Page 2)

Telephone Talks Source Of Leaks

Telephone conversations can be one of our greatest hazards with regard to the safeguarding of classified information. Great care must be exercised by persons hav-ing access to classified information to avoid any discussion of such matter over the telephone.

Whenever it appears necessary to discuss information classified Confidential, Secret or Top Secret with local authorized individuals, arrangements may be made via telephone to agree on a time and place to hold a personal conference The history of man's use of fab-en, into existence. These products es our thirst. The basic raw ma-information privately. Persons who mitted to inspect or have access to relative classified matter.

In telephone conversations it is permissible to allude to matter in the higher classification categories, provided the conversation does not itself reveal information classifiable Confidential or higher. Reference to file numbers, dates and subject. provided the reference itself is not classified higher than Restricted, may be made over the telephone, but great care must be exercised not to reveal informa-tion graded higher than Restricted.

Carbide And Carbon Chemicals Corporation Post Office Box P

Oak Ridge

GEORGE W. DOBBS . . . Editor R. A. BURGIN, JR.. . Associate Editor

> OFFICE North Portal, Bldg. 9701-1 Telephone 7-8252



TROY HIGHTOWER AND his wife, the former Ruby Dunsmore, are pictured above after their wedding on July 31.

Carbide Wives Set **Meeting August 18**

The Carbide Wives Club will meet tomorrow in the East Lounge of the Ridge Recreation Hall at 7:30 p.m.

Hostesses are Mrs. E. J. Spitzer, chairman, Mrs. H. M. Burnett, Mrs. Paul Griffin, Mr. R. A. Koteski and Mrs. E. B. Olszewski.

The club will play bridge rummy and refreshments will be served.

One of the chief causes of traffic accidents is following the car ahead too closely, the National Safety Council says. The rule of one car length for every 10 miles of speed is good except when streets are wet or icy.



Lacy Keele, Dept. B12L, spent his vacation in Dover, Tenn., and ventured up to Kentucky Lake near Gilbertsville, Ky., where he did some boating and swimming . Eunice Jones spent a week end guest of Inez Heatherly in La-Follette . . . Get well wishes are extended to Betty Sherman, who is on the sick list . . . Thelma Cole recently visited her home in Sparta, Tenn. . . . Sympathy is extended to Roger Brotherton, whose uncle died in Greeneville, Tenn. . . Juanita Moore has been visiting with her father, who is critically ill, in Carthage, Miss...Guy Wells and his family were in Daytona Beach last week.

Ed Roselar, Dept. A12W, flew to Buffalo, N. Y., recently and moved his family to Oak Ridge . . . C. A. his family to Oak Ridge . . . C. A. Johnson also moved his family to Oak Ridge from Boston . . . J. C. Little decided to spend his vacation this year at Daytona Beach, just taking life easy . . . G. J. Angele's mother of Baltimore, Ind., is visiting with him . . Bob Morris is back on the job after a vacation in Atlanta, Ga.

J. P. Snodgrass has returned to work after a vacation, visiting points of interest in East Tennessee, including the Smokies, Chattanooga and Norris Dam. He also took a jaunt to Cumberland Gap, Tenn. . . . H. F. Eubank is spend-ing his vacation on his farm near Byington, Tenn. Before leaving, Eubank remarked that he intended to spend most of his time in the watermelon patch . . . Edith Landrum is vacationing in Kingsport. R. H. Ford, Dept. M13P, and his

wife were in Clanton, Ala., last

week on vacation. E. Zurcher, Dept. A13W, spent

E. Zurcher, Dept. A13W, spent his vacation taking life easy at his home in Knoxville . . F. S. McGuiness is visiting friends and relatives in Pennsylvania.

Frank DiCarlo, Dept. B12C, is currently enjoying his vacation in Oak Ridge and intends to take some side trips to points of interest in East Tenn. . . Grace Sluder was in Greeneville last week visiting with friends and relatives. ing with friends and relatives.
Bill Davis, Dept. A23J, motored

to Barbourville, Ky., over the week end, leaving his wife and children to enjoy a vacation, while Bill re-

turned to Oak Ridge.

Employees vacationing in Dept.
A12G are B. H. McCord, E. M.
Hunnicutt, D. A. Cowan, M. S. Sutton, H. J. Ballew . . . Capt. J. H.
Conner is on a sightseeing tour to lew York City and Canada,

Harvey Keese, Dept. B12H, is spending his vacation in Oak Ridge. Since Keese is a big golfer, we expect to see quite a bit of him around the Oak Ridge Golf and Country Club . . . Elizabeth and Clarence Harris, better known as Lizz and Fuzz, are in Teilico Plains vacationing . . . J. W. Mitchell is spending his vacation out west visiting with friends and relatives in Tulsa, Okla. and Denver, Colo.

Dovie Searcy, Dept. M12P, is spending a quiet vacation in Oak kidge. . . bthel White spent her vacation in Oliver Springs . . . F. B. Tilson and his family visited with relatives and friends in Johnson City, Tenn.

Wm. J. Wilcox Jr., Dept. H12D, and his wife, Euginue, Dept. B12A, are vacationing in Lexington, Va... Department H12D has the welcome mat out for Marilyn Jefters and Jeanne Rogers . . . Sympathy is extended to H. P. House ,whose mother-in-law died in Lowell, Ind., last week. F. L. Daley is vacation-ing in New York City . . . Get well wishes are extended to Herbert Clinton, who is ill.

B. I. Scott, Dept. A14N, spent a recent vacation in Georgia . . . Get well wishes are extended to f. H. Hall, who is on the sick list . . I. D. Wallace spent a recent vacation in Oak Ridge . . W. S. Arnold spent his vacation in Washington D. C. I. C. Ezelle and Evan ington, D. C. J. C. Ezelle and Evan Means turned up at Laurel Lake on the same day by chance and both return with the report that each caught a 10-inch blue gill, which are the largest reported this

Bill Rathkamp, Dept. H12L, is reported as one of the outstanding shooters of The Oak Ridge Rifle Team of the Oak Ridge Sports-men's Club.

Mrs. Leona Hunter and her daughter, Carmen Cecile of Derid-

daughter, Carmen Cecile of Deridder, La., are visiting with Mrs. Hunter's brother, Paul Ward of Housing in Dept. A12J.

Mr. and Mrs. J. E. Henderson, of Fort Worth, Texas, have been visiting their son, G. C. Henderson, of Dept. A13J, and his wife.

The Y-12 Bulletin Editors have been enjoying the Florida sunshine. . . Robert A. Burgin, Jr., flew to Miami Beach, Fla., over a recent week end. . . George W. Dobbs has just returned from a two-week vacation spent baking in two-week vacation spent baking in the sun at Daytona Beach, Fla.



A SHOWER GIVEN IN THE HONOR OF PICTURED AT Mrs. Opal Blackwell, the former Opal Froedge, by June Wilkerson, Billie Boyd and Mary Lee Radin, on the front row, from left to right, are Garnet Adams, Alice Jamison, Earline Banic and Ann Bennett. On the Back Row, from left to right, are Mrs. Jess Boyd, Davis Holliday, Jo Soloman, Juanita Fox, Mary Radin, Opal Blackwell, Billie Boyd, June Wilkerson, Evelyn Frazier, Inez Heatherly, Dotty Skinner, Eunice Jones and Naomi Sexton.

Carbide Unit Produces Materials For New 'Krene'

(Continued from Page 1) and impervious to household stains! It does not mildew, crack, peel, or rot.

Seams Joined Without Sewing

Equal in importance to the characteristicts of the fabric is a process developed by National Carbon Co. called "heat-sealing" or "welding." This permits it to be joined, without sewing, in almost invisible seams stronger than the fabric it-

Research on welding plastics was speeded up during the war to find out in a year what it might have taken five years to learn. Heat--sealing was used in the manregarder of war products so that they would withstand the most rugged use. They included: "desalination" bags (which with the help of a chemical pill, changed sea water into drinking water), gun covers, tarpaulins, powder bags, map cases, water bottles, head-wound gas masks, arm and leg bandages.

Many Products From Fabric

In the postwar world, too, this plastic fabric is made into those products in which its particular properties play an essential part. These products include shower curtains, cottage, dinette and kitchen material window curtains, aprons, table cloths, garment bags, and plastic yard goods.

A "Krene" plastic shower curtain has an almost invisible weld-

Hospital List The following Y-12 employees

were patients in the Oak Ridge Hospital last week: Benjamin Beckham, Dept. A14N; Sylvester J. Nuelle, Dept. B12H; Herbert Clinton, Dept. H12D; Betty J. Sherman, Dept. B12L; Dorothy Brashears, Dept. M12P; Herman P. Kackenmester, Dept. H12D; Doris Carolyn Kirk, Dept. A12S; Percy C. Larue, Dept. A16N.

Deliveries

Two births were reported to Y-12 families at the Oak Ridge Hospital last week. Parents were Mr. and Mrs. Robert S. Lowrie, a August 5; Mr. and Mrs. Ralph M. DeLozier, a son, August 6.

ed seam and a welded, tear-proof heading. These shower curtains gained style and individuality by means of plastic printing. The almost invisible seam makes overall silk screen printing possible, so that the entire curtain can be printed at once.

"Krene" Products Easily Cleaned
"Krene" products are economically and easily cleaned — an important feature to home makers.
Plastic dinette curtains and kitchen window curtains made of this material do not absorb kitchen smoke, and are not made limp by kitchen steam. They can be wash-ed quickly with a damp cloth and returned to their windows in ten



USES OF "KRENE" PLASTIC FABRIC are shown in the above pictures. At left is a shower curtain with



a silk-screen print proof apron to wear around babies or batter is shown in



the center picture while at the right is a view of a kitchen in which curtains, table cloth, and chair pads all are made of "Krene."









5-7214



WAREHOUSE BLDG. 9720-6, LOCATED AT THE EAST END OF THE PLANT AREA, may be compared as to size with the trucks at the loading platform in picture No. 1. Picture No. 2 shows J. V. Talley in the Tool Department filling out the necessary forms to issue George Ferrell, Dept. A16N, a part as T. D. Doyle hands the part to Ferrell. The staff of the busy Property Office, shown at work in picture No. 3 include Clyde Ferrell, Frances Smith, Jeannie Halsey, Betty Green, Bill Bonham, Lou Carter, Olyne Poindexter, C. L. Bratcher, W. B. Plemens and Jim Bowers, supervisor. Doyle Karaker is unpacking glassware, used in the chemical laboratories, in picture No. 4. C. M. Miller is operating the lift in picture No. 5 as W. J. Stolp, Sr., checks the storage list.

Department A12S Handles **Receiving And Shipping**

(Continued from Page 1) ment occupies part of the General

Stores Warehouse Building.

J. W. Garland is supervisor of the Receiving and Shipping section and Tool Dept. and W. L. McNabb is General Stores Warehouse su-

For the convenience of the Chemical, Refining and Electrical Divisions, other storerooms are provided to stock the highly specialized material and equipment used by these divisions. Supervisors of these sections include B. B. Thorn-ton, Chemical; R. E. Austin, Refin-ing; and J. D. McGuffin, Electrical.

Down in Bldg. 9720-5, near the west end of the plant area, is located the Chemical Stores section. Its spacious floors are stacked with more than 9,000 different varieties of articles that include many queer looking pieces of laboratory equipment and cartons and packages of chemical material used in the Chemical Division operations.

Approximately 4,000 different items are carried in the Refining Stores quarters in Bldg. 9204-3 and in Warehouse 9720-1.

The Chemical, Refining and Electrical Stores and Tool Department main warehouses are supplemented with additional substations conveniently located in the plant area, where material is issued to the using departments and tools loaned to the individuals.

From each of the different warehouses the supplies and equipment is issued on requisition to the various departments and promptly sent out where required. Record keep-ing indicates the using departments and usage of all issued materials. In addition to the main warehouse, there are 21 other storage buildings strategically located to serve

ties.
Also a part of the Manufacturand offices Division, is the Property Department, whose responsibility it is to establish and maintain the property records for the Y-12 area, safeguarding the Company's interest in the use of govpany's interest in the use of gov-

roads, utility and traffic systems. "B" Property involves all the nonexpendable item such as office equipment, vehicles, laboratory equipment, pumps, etc.

Up to date more than 70,000 items have been inventoried, tagwith an identification number and listed on the property records.

Four basic types of records are maintained and all are cross ref-erenced to each other. They in-clude an alphabetical file, listing equipment by name, size, model and the quantity of each; a location file, listing each item in numerical sequence by the property number; a serial file, which is an alphabetical card file of equipment filed in the sequence of the serial number and the fourth file is the departmental, listing all equipment by the department and building location.

Before any records could be established it was necessary that field inventory crews accurately describe each item of "B" Property on their inventory and attach property regardless of its location. This project was under the supervision of L. V. Thornton.

The inventory and establishment of the "A" Property records has just begun and it is under the supervision of Bill Bonham.

In addition to the normal record keeping the department often is called upon by other departments to assist in locating certain items of equipment needed in the per-formance of their work and also to make special reports or inventories for the Atomic Energy Com-mission and management as re-

Roadway Improvements Now In Progress In OR

(Continued From Page 1)

There are 117 employees in the Receiving, Shipment Stores and Tool Department. The varied functions of the department requires to soft many skills and ability and soft many skills are soft many skills and ability and soft many skills are soft many skills and ability and soft many skills are soft many skills and ability and soft many skills are soft many skills and ability and soft many skills are soft many skills and ability and soft many skills are soft many skills are soft many skills and ability and soft many skills are tion on the Scarboro Road will be undertaken between the Bear Creek Road and the new entrance leading to the electromagnetic plant.

When the contract is let some time after September 8, a total of 270 calendar days will be allowed for completion of the work. The paying at the gate sites, however, QA ernment property.

The records are divided into two classifications known as "A" part of and "B" Property. "A" Property consists of all land, buildings, that time.

The work. The pages.

QA 345—Coble, Arthur B., "Algebraic Geometry and Theta Functions and The pages.

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QA 345—Coble, Arthur B., "Algebraic Geometry and The pages."

QA 372—Ritt, Joseph Fels, "Difference of the pages."

Additions To Y-12 Technical Library

SOCIAL SCIENCE

HA 33—Kelley, Truman Lee, Fundamentals of Statistics." Cambridge, Harvard University Press, 1947. 755 pages.

HD 6961—Cooper, Alfred M., 'Supervision of Governmental Em-ployees." First edition. N. Y., Mc-Graw-Hill, 1943. 202 pages.

HD 7261 — Resnick, Louis "Eye Hazards In Industry." N. Y., Co-lumbia University Press, 1941. 321

HD 7262 — Judson and Brown, Occupational Accident Preven-on." N. Y., Wiley and Sons, 1944. "Occupational tion." N. Y., V

234 pages. HD 7273 - Faist and Newkirk Job Safety Training Manual." N. Y., National Foremen's Insti-

tute, 1945. 52 pages.

HD 7273—Heinrich, H. W., "Industrial Accident Prevention; a Scientific Approach." Second edition. N. Y., McGraw-Hill, 1941.

tion. N. Y., McGraw-Hill, 1941.
448 pages.
HD 7273—Schaefer, Vernon G.,
"Safety Supervision." N. Y., McGraw-Hill, 1941. 352 pages.
HD 7277—Armstrong, Blake,
etc., "Industrial Safety." N. Y.,
Prentice-Hall, 1943. 435 pages.
HD 7277—Lippert, Frederick,
"Accident Prevention Administration." N. Y., McGraw-Hill, 1947.
159 pages. 159 pages.

SCIENCE Q 219 Ref.—Muller, V. K., "Russian - English Dictionary." N. Y.,

sian - English Dictionary." N. 1.,
Dutton, 1947. 822 pages.
Q 219 Fef.—Muller, V. K., "English - Russian Dictionary." N. Y.,
Dutton, 1944. 776 pages.
Periodical — "Research," beginning with October, 1947 issue.

MATHEMATICS

OA 48—National Bureau of

ning with October, 1947 issue.

MATHEMATICS

QA 48—National Bureau of Standards, "Tables of Spherical Bessel Functions." Vol. I. N. Y., Columbia University Press, 1947. 375 pages.

QA 48—National Bureau of Standards, "Tables of Spherical Reactions of Organic Compounds." N. Y., Longmans, 1948. Standards, "Tables of Spherical Reactions of Organic Compounds." N. Y., Longmans, 1948. Standards, "Tables of Spherical Reactions of Organic Compounds." N. Y., Longmans, 1948. Approximately 1.8 miles of area Ressel Functions." Vol. I. N. Y. roads will be surfaced with hot Columbia University Press, 1947

328 pages. QA 331—Hans, Hohn, "Set Func-tions" New Mexico Press, 1948,

324 pages. QA 341 — Bliss, Gilbert Ames, "Algebraic Functions." N. Y. "Algebraic Functions." N. Y., Amer. Math. Society, 1933. 219

Ridge Chest Agency Offers Home Assistance For Family

Seven Departments Report

Perfect Plant Attendance

(Continued From Page 1)
duct Processing; Dept. A15N,
Experimental Process Equipment
and Maintenance; Dept. M12S,
Steam Plant; Dept. A19N, Laundry; Dept. B12A, Superintendent's;
and Dept. A12L, Employment.
Second and third places were
taken by Dept. A12D, Dispensary
and Dept. A12T, Automotive Repair, with reports of 1.1 per cent
and 1.3 per cent respectively.
The complete record of Y-12 absenteeism for the week ending
August 8 by departments follows:

MAJOR LEAGUE

Percentage

Absent

Group absentee percentage was 2.7 per cent, .4 per cent higher than the preceding week.

MINOR LEAGUE Percentage

Absent

10.9

Group absentee percentage was 2.5 percent, remaining the same as the preced-

The plant average for the week ending August 8, 1948, was 2.6 per cent .2 per cent higher than the preceding week.

MOONLIGHT CRUISE PLANNED

A motorcade will leave the Jaycee club house at 7 p.m.

PHYSICS

CHEMISTRY

TECHNOLOGY TK 5521—Olson, Harry F., "Elements of Acoustical Engineering." N. Y., Van Nostrand, 1947. 539

pages.
TN 687—Houghton and Butts,

A moonlight cruise on the "Lake

8-8-48 8-1-48

Standing

8-8-48 8-1-48

5-8013

Dept.

A12G B12H

Dept.

A12N

Assistance to Oak Ridge families who find themselves in financial difficulties or in cases of emergency where aid in the home can help solve perplexing domestic problems frequently is offered through the Family Service Bureau. The Family Service Bureau is one of the Red Feather Agencies of the Oak Ridge Community Chest.

Aid Of Homemaker Sought

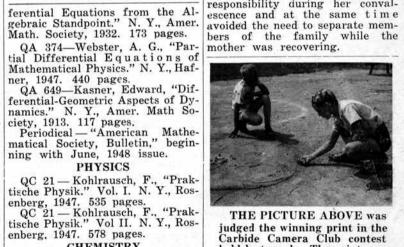
A typical case where assistance was given by the Family Service Bureau is that of Mrs. J. Convalescing from pneumonia, Mrs. J. requested a homemaker from the Family Service Bureau to care for her and the three children, David Jr., 7, Johnny, 3 and Lydia, five months, and to assume the normal household responsibilities. However, the mother said that the family could not afford to pay the agency the full a mount of the homemaker's wages.

Mrs. J. was informed that financial arrangements to suit the means of the family could be made. The caseworker explained that planning for the homemaker placement includes a personal in-terview to discuss with the ap-plicant the terms of placement and duties of the homemaker, enabling the former to understand what responsibilities the homemaker can be expected to assume and what duties the homemaker can anticipate during the time of placement. Mrs. J. agreed to ask her husband to visit the office for this purpose and to discuss at the same time the budget of the family.

Agreement On Fee Reached The father visited the office and learned about the procedure of placement and duties usually performed by a homemaker. He explained what the family would want the homemaker to do and what was involved in the housewhat was involved in the household routine. In the discussion regarding the fee of the homemaker, Mr. J. said quite frankly that he could pay part of the fee. The bureau reviewed the income and expenses of the family and together arrived at a fee that Mr. J. thought would be reasonably possible for him to pay.

The length of placement was two weeks, the maximum, amount

two weeks, the maximum amount of time a homemaker is made available without considering extension. During the placement contacts were maintained with the family. A visit to the home by the case worker revealed that Mrs. J. was able to recuperate without having to endure any mental strain as a result of worry about Queen" on Fort Loudoun Lake is planned for Oak Ridge Junior Chamber of Commerce and the Oak Ridge Jaycettes on August 20. the care of the children or house-hold. Both parents were of the opinion that the homemaker service was most valuable. The pres-ence of the homemaker relieved Mrs. J. of the pressures of family responsibility during her conval-escence and at the same time avoided the need to separate memof the family while the mother was recovering.



THE PICTURE ABOVE was judged the winning print in the Carbide Camera Club contest held last week. The print was made by Foster Calloway and the two boys are Leo Thometz, Jr. and Billie Frey, reading from left to right from left to right.

Camera Club Announces Print Contest Winners

(Continued From Page 1) Following the film, a black and white print competition will be held on landscapes and scenic subjects. Entries for the contest must be in

"Engineering Metallurgy." N. Y., McGraw-Hill, 1938. 525 pages. TS 233—Benedict, Otis, "Manual of Foundry and Pattern Shop Prac-tice." N. Y., McGraw-Hill, 1947. by September 7.

The prints may be left at the home of Virgil Haynes, 114 East Holston Lane or at Taylor's Photo

361 pages.
TS 233—Cady, Edwin Laird,
"Precision Investment Castings."
N. Y., Reinhold, 1948. 356 pages. A good listener is not only pop-ular—after a while he learns some-

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ONE-91 IN THE CARBON LEAGUE OF THE PLANT SOFTball loop are shown above standing from left to right Joel Thomason, George Stukenbroeker, Hugh Finley, Bill McByrd, R. D. Smitty and Bill Schultz. Pictured kneeling from left to right are Herb Quinn, Neil Goodin, Chester Futtz, Jim Redmond and Jim Parham.

Plant Softball Schedule, Standings, Results

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Carbide League										
Team	W	L	Team	W	L					
Fire Dept.	7	0	Wolves	3	5					
Guards	6	1	Bldg. 9212	2	5					
Isotopes	5	2	Calutrons	1	7					
Maintenance	5	3	All Stars	0	7					
Bird Cagers	4	3								

Crew Chiefs One-91 Bums

Over 50 Golf Matches Played In Tournament

Eight Players in the Y-12 golf ladder tournament are riding the undefeated column as of August 12. Caldwell, Dunlap and Lavers have won three matches while Cain,
Nessle and Olson have two wins
tucked under their belts. Shugart
and Koontz each have one win.
L. C. Martin and Arnold Tiller

have played more games than any other players. Martin has won six and lost two while Tiller has cop-ped five matches against two los-

Ladder standings are printed in the Y-12 Recreation Bulletin every

Girl Commutes To School By Air

It costs less for Robert Conklin to send his daughter, Deborah Conklin, 11, to school by plane 120 miles away than it would if she boarded at the University of Ore-gon where she attends a special

She prefers the commercial air-ner anyhow to the outmoded school bus. She never misses a meal at home, leaving there at 9 a.m. and back by 1 p.m. It costs \$6 daily for the plane and taxi fare.



THE MANUFACTURING OFFICE DIVISION'S FIRST AID team and their alternate member entered in the Oak Ridge First Aid Contest are pictured above demonstrating the correct method of caring for a patient, in a practice session, who has received an electrical shock from a power line and received burns on his right arm and left leg. The patient was also knocked unconscious. The team shown from left to right are J. C. Duguay, A. V. Bible, A. K. Self, Joe McMasters, alternate, Leon Brown and B. N. Strunk. The patient is L. V. Thornton, substituting for W. B. Plemens.

Y-12 Plant League Games Tighten As Tournament Approaches With Three Clubs Struggling For Lead

The plant league tournament gets under way Thursday night, winding up the 1948 season. The Fire Department, Guards and Bird Cagers remain as heavy favorites and the clubs to be beaten. Other teams that shouldn't be overlooked that are in position to upset the favorites include the Calutrons, Isotopes and Maintenance.

The tournament is expected to be one of the closest in plant league history, with all of the outfits out to win the 1948 plant championship.

The last week of play in the plant league games was the closest yet, indicating the tough road ahead for the tournament.

The Firemen almost lost their

The Firemen almost lost their league lead on August 10 when they edged Maintenance 2 to 1 in one of the closest plant league games of the season. Johnny Webb hurled the Fire Department to their victory, giving up only four hits. E. Green chalked up the same record for the losers. Krause, Roberts, Braden and Argo each col-lected a single for the Fire De-partment. L. C. Martin netted two singles for Maintenance and his teammates, Green and Kimbro, got

teammates, Green and Kimbro, got a single apiece.

Bums Take One-91

The Bums knocked the Carbon League-leading One-91ers for a 9 to 6 loss on August 10. Walton relieved Francis as hurler for the Bums in the fifth inning. The winning pitcher was also slugging from behind the plate, with a double, triple and a single. Brown was the heavy hitter for the Bums, with a single, double and a homer. Stukenbroeker tossed for the losers. Dreamers Win Dreamers Win

Dreamers Win

The Dreamers notched up a win last Tuesday night over the Crew Chiefs with a 15 to 11 tally. Redden pitched for the Dreamers, whiffing seven and walking six. Bill Walker caught. The Crew Chiefs' battery was composed of Parsons and Mitchell. Parsons fanned nine and walked five. Walker got four hits out of five trips to the plate.

Six C's Top One-91

The Crew Chiefs had previously topped One-91 earlier in the week, giving the losers their first loss of

giving the losers their first loss of the second half. Walter Simmons hurled for the Six C's in their 8 to 2 win over One-91ers. Stukenbroeker started the game on the mound for One-91 and he was relieved by Smitty. Adcock collected three singles out of four trips for the Crew Chiefs.

Firemen Lead Guards

The game between the Fire De-

The game between the Fire Department and the Guards was called by the ump on time at the end of the sixth, with the Firemen leading 3 to 1. Johnny Webb hurled for the leaders and "Lefty" Christophor tossed for the Guards

Christopher tossed for the Guards.

Both pitchers allowed only four hits in the six-inning game. Webb, Davis, Moore and Krause batted a single apiece for the Firemen. The hits for the Guards were collected by Scott, Holt, Shoemaker and Mc-Allister. Guards Edge All-Stars

Later in the week the Guards eased by the All-Stars 3 to 1, with Christopher on the mound again, fanning 11 of the All-Stars. Sparks and Shoemaker connected on the losing hurler, Grimes, for homers.

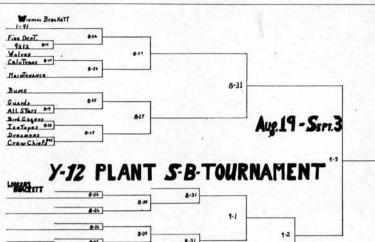
Wolves Howl
The Wolves skipped by Bldg.
9212 on August 6, led by J. Roberts on the mound, winning 12 to
8. Ford started the mound duties
for Bldg. 9212 and was relieved by
Mustin in the sixth. Zeigler was 8. Ford started the mound duties for Bldg. 9212 and was relieved by Mustin in the sixth. Zeigler was the big batter for the night, with three singles in four trips with Johnny Webb again doing the Warned Of Carelessness three singles in four trips.

ICKES TO SELL STAMPS

Nearly 100,000 stamps from the collection of former Secretary of Interior, Harold Ickes, will go on sale this fall. The collection rep-resents Icke's 30-year hobby of collecting stamps from all parts of

NEW HOURS FOR RIDGE POOL The Oak Ridge swimming pool began a new schedule last Satur-

day, as announced by the Recreation Department. The pool will be open from 1 p. m. to 8 p. m.



THE Y-12 PLANT SOFTBALL TOURNAMENT BRACKET is shown above listing the scheduled games and dates to be played.

Cards Meet R-A, ORNL; Robusters Idle

The Y-12 varsity baseballers have two games on slate this week, engaging Roane-Anderson Thursday and Oak Ridge National Laboratory on Saturday. Both games will be played at Oakwood Park, starting at 8 p.m.

The Varsity Softball team was idle last week and are scheduled to meet Firestone on August 23. Community Stores Win

The Community Stores baseball club barely edged the Y-12 Cardinals 7 to 6 on August 8 at Oakwood Park. The Y-12 Varsity outfit rallied in the eighth inning when they were trailing 6 to 3 and brought in three runs tring up brought in three runs, tying up the ball game.

The Stores came back the next inning and scored the winning run. Lusk hurled for the Stores, fanning six of the Cardinals and walking

Kappelman started on the mound for Y-12 and he was relieved by Gardner in the seventh. Dodson caught for Y-12. Noe was the Cards' big hitter, with four singles out of four trips to the plate.

out of four trips to the plate.

The Cardinals' scheduled game with the K-25 Hubs was rained out last Thursday night. They were slated to engage the AECers last

Two Y-12 Clubs Win First Games In "B" Tournament

Two Y-12 teams entered in the Oak Ridge City "B" Tournament emerged victorious in the first two nights of play. The Y-12 Has Beens topped the X-10 Instrument outfit 9 to 2. Johnny Webb hurled for the Y-12ers and Emette Moore caucht. Brown tossed for Moore caught. Brown tossed for the losers and Hurst caught.

the losers and Hurst caught.
Bird Cagers Win
The second Y-12 team winning their first game was the Bird Cagers over Trinity Methodist Church, 7 to 2. Ed Sise was the winning pitcher, opposed on the mound by Hudson.

Johnny Webb had a no-hit, shutout game up until the last of the seventh, with two away when the Instrument outfit chalked up two

Instrument outfit chalked up two hits and later scored two runs.

with Johnny Webb again doing the

Then Came The Rude Awakening

According to a recent news dispatch from Windsor, Ont., a policeman was on his nightly beat, flicking his flashlight beam through a cigar store window, when he thought he saw a man in the store.

The man, at the same time, quitely darted into a telephone booth causing the little light to go on. The policeman's suspicions were confirmed.

K-25 Drops League; Robins Remain Intact

The Women's Municipal Softball League was discontinued without approval of the League officials and the schedule has been declared incomplete by the officials. No one team can be declared champion of the league without completion of the scheduled games.
The Y-12 Robins and Roane-An-

derson were the only remaining teams in the Women's softball league when the K-25 lassies dropped out by failing to show up in a scheduled game between the Robins and the West Turnpike girls. The Robins were definitely on the upgrade and appeared as a likely winner of the league when K-25 dropped out.

dropped out.

Showing some of their last half strength the Robins came from behind in the second inning on August 6 when Roane-Anderson was leading the locals 10 to 1, to hold the R-A girls at 10 runs and tally 16 themselves to win 17 to 10.

In the August 6 contest Marian Brown started the pitching for Y-12 and she was relieved by Helen Brown in the second, Ann Hart in turn relieved Helen Brown as catcher.

catcher.

Jerry Morrisette was the slugger for the Robins with four singles and a walk in five trips to the plate. Helen Aikman and Pat Roberts alternated each inning as hurlers and at third base.

Y-12 Shoe Hurlers Win Over Oak Ridge Jaycees

Y-12's No. 2 horshoe team walloped the Oak Ridge Junior Chamber of Commerce club 13 to 3 last Thursday night at Ridge Courts. Another match is scheduled for the

Y-12ers and the Jaycees tomorrow night at Ridge Courts.

The Jaycees forfeited their scheduled game with the No. 1 team last Wednesday night.

Back to the No. 2 game played Thursday night, the results gave Fields and Gragg three wins and no defeats for Y-12 while Watts won one with no losses. Olson and Beckett won one and lost one for the Y-12ers and Forbs failed to break into the win column with one

The Y-12 plant softball tourna-ment begins Thursday and the Y-12 Recreation Department warns against useless injuries. Several injuries have been reported from various plant league games during the past three weeks and due care should be taken during the tournament to avoid all accidents.

The tournament will decide the plant league champion and end a sucessful season of softball for Y-12. The games are for enter-tainment and recreation purposes only and chances should not be taken that might result in a minor or even serious injury.